

0400  
03/09/01

#2

OIPE

## RAW SEQUENCE LISTING

DATE: 03/22/2001

PATENT APPLICATION: US/09/757,716

TIME: 13:27:54

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

ENTERED

```

1 <110> APPLICANT: Magna, Holly
2   Schaffer, Paul
3   Lawton, Michael
4   Yocum, Sue
5   Mitchell, Peter
6   Hutchinson, Nancy
7   Murry, Lynn E.
W--> 8 <120> TITLE OF INVENTION: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2
W--> 9 <130> FILE REFERENCE: PF-0420 US
W--> 10 <140> CURRENT APPLICATION NUMBER: 09/757,716
C--> 11 <141> CURRENT FILING DATE: 2001-01-09
13 <150> PRIOR APPLICATION NUMBER: US/08/996,083
14 <151> PRIOR FILING DATE: 1997-12-22
16 <160> NUMBER OF SEQ ID NOS: 3
17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1156
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
W--> 23 <220> FEATURE:
24 <221> NAME/KEY: misc_feature
25 <223> OTHER INFORMATION: Incyte Clone No.: 1388013
W--> 26 <300> PUBLICATION INFORMATION:
W--> 27 <400> SEQUENCE: 1
28   Met Ala Ser Leu Leu Pro Leu Leu Cys Leu Cys Val Val Ala Ala His
29       1           5           10           15
30   Leu Ala Gly Ala Arg Asp Ala Thr Pro Thr Glu Glu Pro Met Ala Thr
31       20           25           30
32   Ala Leu Gly Leu Glu Arg Arg Ser Val Tyr Thr Gly Gln Pro Ser Pro
33       35           40           45
34   Ala Leu Glu Asp Trp Glu Glu Ala Ser Glu Trp Thr Ser Trp Phe Asn
35       50           55           60
36   Val Asp His Pro Gly Gly Asp Gly Asp Phe Glu Ser Leu Ala Ala Ile
37       65           70           75           80
38   Arg Phe Tyr Tyr Gly Pro Ala Arg Val Cys Pro Arg Pro Leu Ala Leu
39       85           90           95
40   Glu Ala Arg Thr Thr Asp Trp Ala Leu Pro Ser Ala Val Gly Glu Arg
41       100          105          110
42   Val His Leu Asn Pro Thr Arg Gly Phe Trp Cys Leu Asn Arg Glu Gln
43       115          120          125
44   Pro Arg Gly Arg Arg Cys Ser Asn Tyr His Val Arg Phe Arg Cys Pro
45       130          135          140
46   Leu Glu Ala Ser Trp Gly Ala Trp Gly Pro Trp Gly Pro Cys Ser Gly
47       145          150          155          160
48   Ser Cys Gly Pro Gly Arg Arg Leu Arg Arg Arg His Cys Pro Ser Pro
49       165          170          175
50   Ala Gly Asp Ala Cys Pro Gly Arg Pro Leu Glu Ala Gln Lys Cys Val

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/757,716

DATE: 03/22/2001

TIME: 13:27:54

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

|    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 51 |     |     | 180 |     |     |     | 185 |     |     |     | 190 |     |     |     |
| 52 | Arg | Pro | Arg | Cys | Pro | Gly | Cys | Ser | Leu | Asp | Thr | Cys | Glu | Cys |
| 53 |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |
| 54 | His | Ile | Leu | Leu | Gly | Ser | Val | Val | Thr | Pro | Ser | Gly | Gln | Pro |
| 55 |     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |
| 56 | Gly | Ala | Arg | Val | Ser | Leu | Arg | Asp | Gln | Pro | Gly | Thr | Val | Ala |
| 57 |     |     | 225 |     |     |     | 230 |     |     |     |     | 235 |     | 240 |
| 58 | Asp | Ala | His | Gly | Thr | Phe | Arg | Val | Pro | Gly | Val | Cys | Ala | Asp |
| 59 |     |     |     |     | 245 |     |     |     |     |     |     | 250 |     | 255 |
| 60 | Ala | Asn | Ile | Arg | Ala | Gln | Met | Asp | Gly | Phe | Ser | Ala | Gly | Glu |
| 61 |     |     | 260 |     |     |     |     |     | 265 |     |     |     | 270 |     |
| 62 | Ala | Gln | Ala | Asn | Gly | Ser | Ile | Ser | Val | Val | Thr | Ile | Ile | Leu |
| 63 |     |     | 275 |     |     |     |     |     | 280 |     |     |     | 285 |     |
| 64 | Leu | Glu | Lys | Pro | Tyr | Leu | Val | Lys | His | Pro | Glu | Ser | Arg | Val |
| 65 |     |     | 290 |     |     |     |     | 295 |     |     |     | 300 |     |     |
| 66 | Ala | Gly | Gln | Asn | Val | Thr | Phe | Cys | Cys | Lys | Ala | Ser | Gly | Thr |
| 67 |     |     | 305 |     |     |     | 310 |     |     |     |     | 315 |     | 320 |
| 68 | Pro | Lys | Lys | Tyr | Ser | Trp | Phe | His | Asn | Gly | Thr | Leu | Leu | Asp |
| 69 |     |     |     |     | 325 |     |     |     |     |     | 330 |     |     | 335 |
| 70 | Ala | His | Gly | Tyr | Gly | Ala | His | Leu | Glu | Leu | Arg | Gly | Leu | Arg |
| 71 |     |     | 340 |     |     |     |     |     | 345 |     |     |     | 350 |     |
| 72 | Gln | Ala | Gly | Ile | Tyr | His | Cys | Lys | Ala | Trp | Asn | Glu | Ala | Gly |
| 73 |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |
| 74 | Arg | Ser | Gly | Thr | Ala | Arg | Leu | Thr | Val | Leu | Ala | Pro | Gly | Gln |
| 75 |     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |
| 76 | Cys | Asp | Pro | Arg | Pro | Arg | Glu | Tyr | Leu | Ile | Lys | Leu | Pro | Glu |
| 77 |     |     | 385 |     |     |     | 390 |     |     |     | 395 |     |     | 400 |
| 78 | Gly | Gln | Pro | Gly | Ser | Gly | Pro | Ala | Tyr | Leu | Asp | Val | Gly | Leu |
| 79 |     |     |     |     | 405 |     |     |     |     | 410 |     |     |     | 415 |
| 80 | Asp | Thr | Arg | Cys | Pro | Ser | Leu | Ala | Gly | Ser | Ser | Pro | Arg | Cys |
| 81 |     |     | 420 |     |     |     |     |     | 425 |     |     |     | 430 |     |
| 82 | Ala | Ser | Ser | Arg | Cys | Cys | Ser | Val | Arg | Arg | Leu | Glu | Arg | Arg |
| 83 |     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |
| 84 | His | Cys | Pro | Gly | Tyr | Val | Leu | Pro | Val | Lys | Val | Val | Ala | Glu |
| 85 |     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |
| 86 | Cys | Gln | Lys | Cys | Leu | Pro | Pro | Arg | Gly | Leu | Val | Arg | Gly | Arg |
| 87 |     |     | 465 |     |     |     | 470 |     |     |     | 475 |     |     | 480 |
| 88 | Ala | Ala | Asp | Ser | Gly | Glu | Pro | Leu | Arg | Phe | Ala | Arg | Ile | Leu |
| 89 |     |     |     |     | 485 |     |     |     |     | 490 |     |     |     | 495 |
| 90 | Gln | Glu | Pro | Ile | Gly | Phe | Thr | Ala | Tyr | Gln | Gly | Asp | Phe | Thr |
| 91 |     |     | 500 |     |     |     |     |     | 505 |     |     |     | 510 |     |
| 92 | Val | Pro | Pro | Ser | Thr | Gln | Arg | Leu | Val | Val | Thr | Phe | Val | Asp |
| 93 |     |     | 515 |     |     |     |     |     | 520 |     |     |     | 525 |     |
| 94 | Gly | Glu | Phe | Met | Asp | Ala | Val | Arg | Val | Leu | Pro | Phe | Asp | Pro |
| 95 |     |     | 530 |     |     |     | 535 |     |     |     |     | 540 |     |     |
| 96 | Ala | Gly | Val | Tyr | His | Glu | Val | Lys | Ala | Met | Arg | Lys | Lys | Ala |
| 97 |     |     | 545 |     |     |     | 550 |     |     |     | 555 |     |     | 560 |
| 98 | Ile | Leu | His | Thr | Ser | Gln | Ser | Asn | Thr | Ile | Pro | Leu | Gly | Glu |
| 99 |     |     |     |     | 565 |     |     |     |     | 570 |     |     |     | 575 |

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/757,716

DATE: 03/22/2001  
 TIME: 13:27:54

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

```

100 Asp Glu Ala Pro Leu Gly Glu Leu Val Leu Pro Ser Gly Ala Phe Arg
101          580          585          590
102 Arg Ala Asp Gly Lys Pro Tyr Ser Gly Pro Val Glu Ala Arg Val Thr
103          595          600          605
104 Phe Val Asp Pro Arg Asp Leu Thr Ser Ala Ala Ser Ala Pro Ser Asp
105          610          615          620
106 Leu Arg Phe Val Asp Ser Asp Gly Glu Leu Ala Pro Leu Arg Thr Tyr
107          625          630          635          640
108 Gly Met Phe Ser Val Asp Leu Arg Ala Pro Gly Ser Ala Glu Gln Leu
109          645          650          655
110 Gln Val Gly Pro Val Ala Val Arg Val Ala Ala Ser Gln Ile His Met
111          660          665          670
112 Pro Gly His Val Glu Ala Leu Lys Leu Trp Ser Leu Asn Pro Glu Thr
113          675          680          685
114 Gly Leu Trp Glu Glu Glu Ser Gly Phe Arg Arg Glu Gly Ser Ser Gly
115          690          695          700
116 Pro Arg Val Arg Arg Glu Glu Arg Val Phe Leu Val Gly Asn Val Glu
117          705          710          715          720
118 Ile Arg Glu Arg Arg Leu Phe Asn Leu Asp Val Pro Glu Arg Arg Arg
119          725          730          735
120 Cys Phe Val Lys Val Arg Ala Tyr Ala Asn Asp Lys Phe Thr Pro Ser
121          740          745          750
122 Glu Gln Val Glu Gly Val Val Val Thr Leu Val Asn Leu Glu Pro Ala
123          755          760          765
124 Pro Gly Phe Ser Ala Asn Pro Arg Ala Trp Gly Arg Phe Asp Ser Ala
125          770          775          780
126 Val Thr Gly Pro Asn Gly Ala Cys Leu Pro Ala Phe Cys Asp Ala Asp
127          785          790          795          800
128 Arg Pro Asp Ala Tyr Thr Ala Leu Val Thr Ala Thr Leu Gly Gly Glu
129          805          810          815
130 Glu Leu Glu Pro Ala Pro Ser Leu Pro Arg Pro Leu Pro Ala Thr Val
131          820          825          830
132 Gly Val Thr Gln Pro Tyr Leu Asp Arg Leu Gly Tyr Arg Arg Thr Asp
133          835          840          845
134 His Asp Asp Pro Ala Phe Lys Arg Asn Gly Phe Arg Ile Asn Leu Ala
135          850          855          860
136 Lys Pro Arg Pro Gly Asp Pro Ala Glu Ala Asn Gly Pro Val Tyr Pro
137          865          870          875          880
138 Trp Arg Ser Leu Arg Glu Cys Gln Gly Ala Pro Val Thr Ala Ser His
139          885          890          895
140 Phe Arg Phe Ala Arg Val Glu Ala Asp Lys Tyr Glu Tyr Asn Val Val
141          900          905          910
142 Pro Phe Arg Glu Gly Thr Pro Ala Ser Trp Thr Gly Asp Leu Leu Ala
143          915          920          925
144 Trp Trp Pro Asn Pro Gln Glu Phe Arg Ala Cys Phe Leu Lys Val Lys
145          930          935          940
146 Ile Gln Gly Pro Gln Glu Tyr Met Val Arg Ser His Asn Ala Gly Gly
147          945          950          955          960
148 Ser His Pro Arg Thr Arg Gly Gln Leu Tyr Gly Leu Arg Asp Ala Arg

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/757,716

DATE: 03/22/2001

TIME: 13:27:54

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

```

149          965          970          975
150 Ser Val Arg Asp Pro Glu Arg Pro Gly Thr Ser Ala Ala Cys Val Glu
151          980          985          990
152 Phe Lys Cys Ser Gly Met Leu Phe Asp Gln Arg Gln Val Asp Arg Thr
153          995          1000          1005
154 Leu Val Thr Ile Met Pro Gln Gly Ser Cys Arg Arg Val Ala Val Asn
155          1010          1015          1020
156 Gly Leu Leu Arg Asp Tyr Leu Thr Arg His Pro Pro Pro Val Pro Ala
157          1025          1030          1035          1040
158 Glu Asp Pro Ala Ala Phe Ser Met Leu Ala Pro Leu Asp Pro Leu Gly
159          1045          1050          1055
160 His Asn Tyr Gly Val Tyr Thr Val Thr Asp Gln Ser Pro Arg Leu Ala
161          1060          1065          1070
162 Lys Glu Ile Ala Ile Gly Arg Cys Phe Asp Gly Ser Ser Asp Gly Phe
163          1075          1080          1085
164 Ser Arg Glu Met Lys Ala Asp Ala Gly Thr Ala Val Thr Phe Gln Cys
165          1090          1095          1100
166 Arg Glu Pro Pro Ala Gly Arg Pro Ser Leu Phe Gln Arg Leu Leu Glu
167          1105          1110          1115          1120
168 Ser Pro Ala Thr Ala Leu Gly Asp Ile Arg Arg Glu Met Ser Glu Ala
169          1125          1130          1135
170 Ala Gln Ala Gln Ala Arg Ala Ser Gly Pro Leu Arg Thr Arg Arg Gly
171          1140          1145          1150
172 Arg Val Arg Gln
173          1155

```

175 &lt;210&gt; SEQ ID NO: 2

176 &lt;211&gt; LENGTH: 4183

177 &lt;212&gt; TYPE: DNA

178 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 179 &lt;220&gt; FEATURE:

180 &lt;221&gt; NAME/KEY: misc\_feature

181 &lt;223&gt; OTHER INFORMATION: Incyte Clone No.: 1388013

W--&gt; 182 &lt;300&gt; PUBLICATION INFORMATION:

W--&gt; 183 &lt;400&gt; SEQUENCE: 2

```

184 gcccagcac gccgcggagc ccggacctcc ctgggacgct ctgccccggc catggcgctcg      60
185 ctgtgtccac tgctctgtct ctgtgtcgtc gctgcgcacc tggcgggggc ccgagacgcc      120
186 acccccaccg aggagccaat ggcgactgca ctgggcctgg aaagacggtc cgtgtacacc      180
187 ggccagccct caccagccct ggaggactgg gaagaggcca gcgagtggac gtcttggttc      240
188 aacgtggacc accccggagg cgacggcgac ttcgagagcc tggctgccat ccgcttctac      300
189 tacggggccag cgcgcgtgtg cccgcgaccg ctggcgctgg aggcgcgcac cacggactgg      360
190 gccctgcccgt ccgccgtcgg cgagcgcgtg cacttgaacc ccacgcgcgg cttctggtgc      420
191 ctcaaccgcg agcaaccgcg tggccgccgc tgctccaact accacgtgcg cttccgctgc      480
192 ccactagaag cctcgtgggg cgcgtggggc ccgtggggtc cctgctcggg gagctgtggg      540
193 ccaggccgct gcttgccgcg ccgccactgc ccaagccccc ctgggggatgc gtgtcccggg      600
194 cgtcctctgg aggcgcagaa gtgcgtgcgg cctcgggtgc caggggtgcag ccttgacacc      660
195 tgtgaatgcc cggaccacat cctcctgggc tcgggtgtca ccccatctgg gcaaccactg      720
196 ctaggagcca gggctctcct gcgagaccag cctggcactg tggccaccag cgatgtcac      780
197 ggaaccttcc ggggtccctg tgtctgtgct gacagccgcg ccaacatcag ggcccagatg      840
198 gatggcttct ctgcagggga ggcccaggcc caggccaacg gatccatctc tgtggtcacc      900

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/757,716

DATE: 03/22/2001

TIME: 13:27:54

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

|     |             |             |            |            |            |            |      |
|-----|-------------|-------------|------------|------------|------------|------------|------|
| 199 | atcatccttg  | ataagttgga  | gaagccgtac | ctggtgaaac | accctgagtc | ccgagtgcga | 960  |
| 200 | gaggtctggc  | agaatgtgac  | tttctgtctg | aaagcctccg | ggacccccat | gccaagaaa  | 1020 |
| 201 | tactcctggt  | tccacaatgg  | gacctgtctg | gacaggcgag | ctcatgggta | cggggccac  | 1080 |
| 202 | ctggagctsc  | ggggactgcg  | cccagaccag | gctggcatct | accactgcaa | ggcatggaat | 1140 |
| 203 | gaggcggtg   | ccgtgcgctc  | gggcactgcc | cggctcactg | tacttgcccc | aggccagcca | 1200 |
| 204 | gcctgcgacc  | cccggccccg  | agagtactcg | atcaagctcc | ctgaggactg | tggtcagcca | 1260 |
| 205 | ggtagtggcc  | ctgcctacct  | ggatgtgggc | ctctgtcccg | acaccgctg  | ccccagcctg | 1320 |
| 206 | gcaggctcca  | gcccccgctg  | cggggacgcc | agctcccgtc | gctgctctgt | gcgcgctctg | 1380 |
| 207 | gagagaagg   | agattcactg  | ccctggctac | gtcctcccag | tgaaggtggt | ggcagagtgt | 1440 |
| 208 | ggctgccaga  | agtgtctgcc  | ccctcggggg | ctggtccggg | gccgtgttgt | ggctgtgac  | 1500 |
| 209 | tccggggagc  | cgctacgctt  | cggcaggatt | ctgctgggcc | aggagcccat | cggcttcacc | 1560 |
| 210 | gcctaccagg  | gcgactttac  | cattgaggtg | ccgcccctca | cccagcggct | ggtggtgact | 1620 |
| 211 | tttgtggacc  | ccagcgggtg  | gttcatggac | gctgtccggg | tcttgctttt | tgatcctcga | 1680 |
| 212 | ggtgcccgcg  | tgtaccacga  | ggtcaaggcc | atcggaaga  | aagccccggt | cattttacat | 1740 |
| 213 | accagccaga  | gcaacacgat  | ccccctgggc | gagctggaag | atgaggcgcc | cctgggcgag | 1800 |
| 214 | ctggtcctgc  | cttctggcgc  | tttccgcaga | gccgacggca | aacctactc  | ggggcctgtg | 1860 |
| 215 | gaggccccgg  | tgacgttcgt  | ggacccccga | gacctcacct | cggcgcgctc | tgccccagct | 1920 |
| 216 | gacctgcgct  | tcgtggacag  | cgacggcgag | ctggctccac | tgcgcacctc | cggcatgttc | 1980 |
| 217 | tccgtggacc  | tccgtgcgcc  | cggctccgcg | gagcagctgc | aggtggggcc | ggtggccctg | 2040 |
| 218 | cgggtggccg  | ccagccagat  | ccacatgcc  | ggccacgtgg | aggccctcaa | gctgtggtcg | 2100 |
| 219 | ctgaaccccg  | agaccggctt  | gtgggaggag | gagagcggct | tccggcgoga | ggggtcctcg | 2160 |
| 220 | ggccccggg   | tgccgcggga  | ggagcgcgct | ttcctgggtg | gcaacgtgga | gatccgggag | 2220 |
| 221 | cggcgccctg  | tcaatctgga  | cgtgcctgag | cggcgccgct | gcttcgtgaa | ggtgcgcgcc | 2280 |
| 222 | tacgccaacg  | acaagttcac  | ccccagcgag | cagggtggag | gcgtgggtgt | cacgctggct | 2340 |
| 223 | aatctggagc  | ccgcccccg   | cttctccgcc | aacccccgtg | cctggggccg | ctttgacagc | 2400 |
| 224 | gcggtcaccc  | gccccaatgg  | cgccctgctc | cccgcttctt | gcgacgcoga | caggccagac | 2460 |
| 225 | gcctacaccg  | ccctgggtcac | cgccacctg  | ggcggcgagg | agctggagcc | ggccccctcc | 2520 |
| 226 | ttgccccggc  | cactcccgcc  | caccgtgggc | gtcacccagc | cctacctgga | caggctgggg | 2580 |
| 227 | taccgtcgga  | cggaccacga  | cgatcccggc | ttcaagcgta | acggcttccg | catcaacctc | 2640 |
| 228 | gccaagccca  | ggccagggtg  | ccccgcggag | gccaatgggc | ctgtgtaccc | gtggcgagc  | 2700 |
| 229 | ctgcggggaat | gccagggggc  | cccggtgact | gccagccact | tccgcttcgc | cagggtggag | 2760 |
| 230 | gcggacaagt  | acgagtacaa  | cgtggtcccc | ttccgagagg | gcacacctgc | ctcctggact | 2820 |
| 231 | ggcgatctcc  | tggcctgggt  | gccccaaccc | caggagttcc | gggcctgctt | cctcaagggt | 2880 |
| 232 | aagatccagg  | gtccccagga  | gtatatggtc | cgctcccaca | acgcaggggg | cagccacca  | 2940 |
| 233 | cgcacccgcg  | gccagctcta  | cggacttcgg | gatgcccgga | gtgtgcgaga | ccccgagcgt | 3000 |
| 234 | ccgggcacct  | cggcagcctg  | cgtggagtgc | aagtgcagcg | ggatgctgtt | cgaccagcgg | 3060 |
| 235 | cagggtggaca | ggacgctggt  | gaccattatg | ccccagggca | gctgccggcg | cgtggccgct | 3120 |
| 236 | aacggactcc  | ttcgggatta  | cctgaccggg | caccccccac | cggtgccgcg | ggaggacca  | 3180 |
| 237 | gctgccttct  | ccatgctggc  | ccccctagac | cctctgggcc | acaactatgg | cgtctacact | 3240 |
| 238 | gtcactgacc  | agagcccacg  | cttggccaag | gagatcgcca | ttggccgctg | ctttgatggt | 3300 |
| 239 | tcctctgacg  | gyttctccag  | agagatgaag | gctgatgccg | gcacagccgt | caccttccag | 3360 |
| 240 | tgcggggagc  | caccggcccg  | acgaccagc  | ctcttccaga | ggctgctgga | gtccccggcg | 3420 |
| 241 | acagcacttg  | gtgacatccg  | caggagatg  | agcgaggcgg | cgcaggcaca | ggccccggcc | 3480 |
| 242 | tcaggctccc  | tccgcacccg  | cggggtagg  | gtccggcagt | gacctgggca | ggggcctcgc | 3540 |
| 243 | tttcccacct  | ccctccagac  | tcctttgacc | ccagggaagt | ttgccccctc | ttcttctcca | 3600 |
| 244 | gacagccccc  | tccccagggt  | tctgggtccc | ctttcccgcc | cctttccaga | actcagagtc | 3660 |
| 245 | agacaagaac  | ccagagcatc  | cgatggtaga | aacaccagga | agacaattgt | tgctgtgtgg | 3720 |
| 246 | tatggaatgg  | agtttgcggt  | gactctgggg | ccagcaccca | ggggacgacg | ttcaacccta | 3780 |
| 247 | gcctgaaggg  | acccgctccc  | agctcagaag | ccgtctctga | cttctcgtgc | gtattttgac | 3840 |

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/757,716

DATE: 03/22/2001

TIME: 13:27:55

Input Set : A:\09757716.txt

Output Set: N:\CRF3\03222001\I757716.raw

L:8 M:283 W: Missing Blank Line separator, <120> field identifier  
L:9 M:283 W: Missing Blank Line separator, <130> field identifier  
L:10 M:283 W: Missing Blank Line separator, <140> field identifier  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:23 M:283 W: Missing Blank Line separator, <220> field identifier  
L:26 M:283 W: Missing Blank Line separator, <300> field identifier  
L:27 M:283 W: Missing Blank Line separator, <400> field identifier  
L:179 M:283 W: Missing Blank Line separator, <220> field identifier  
L:182 M:283 W: Missing Blank Line separator, <300> field identifier  
L:183 M:283 W: Missing Blank Line separator, <400> field identifier  
L:253 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:253 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2  
L:259 M:283 W: Missing Blank Line separator, <220> field identifier  
L:262 M:283 W: Missing Blank Line separator, <300> field identifier  
L:263 M:283 W: Missing Blank Line separator, <400> field identifier